**Assignment-11**

**R-Programming**

**Date: 18.04.2020**

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| Q.1 | Create a data frame using 20 records comprises of Name, Height(in Cms), Weight(in Kgs),Branch( i.e account,purchase,finance,sales) of employees. Add four records of height as NA value and two records of Weight as two values. | [05] |
| Q.2 | Using shiny package generates interactive visualization between height and weight.  Hint : You can use the slider or color palette for making interactive visualization. | [15] |
| Q.3 | Design the prediction model based on the simple linear regression model to determine the relationship between height and weight variables of dataframe.Do appropriate precessing before applying the model. Impute NA values with average. | [15] |
| Q.4 | Do the following operation on data frame :   1. Generate the histogram of height and weight values with all parameters of graph. 2. Calculate the outer fence value of outlier of Weight data. 3. Determine the skewness and kurtosis values of height data. 4. Determine the quantile value of width with 35,55,75,85 % probability 5. Calculate the mode value of the Weight data. | [15] |

**Submission Date: 19.04.2020**

Note: Complete the assignment with screens in word file and submit it by tomorrow.

**Link for Submission:**

**https://drive.google.com/drive/folders/1UXWMrZNeVFnJrpqjo3vz8YuXREI\_umjX?usp=sharing**